Panama

Notes.

Hendl. Chagres
Plants.

Plant Lists
23.6

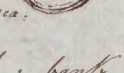
Notes
to a collection of Plants made in the vicinity of Chagres on the Isthmus of Panama, from January 5th – April 5th 1850.

by Augustus Fendler.

The sign ' stands for feet, " for inches.

No.

1. January – April.– Low level tracts near the sea. small tree 10–30' high; flower: yellowish-white; calyx and corolla very thick, fugacious.

2. Apocynea
Febr: – April. Shrub 10–20' high, corolla bright yellow; fruit bright scarlet when ripe; shape 
local: margin of the woods fronting the sea.

3. Febr:. Shrub 10–12' high; bank of a little stream; flower of a brownish green color.

4. March. Plant: twining.

5. Scoparia dulcis L.
March – April, Near the sea-shore; petals: 4, white; stam: 4, altern:

6. Vismia sp.
February, 9th. Swampy places. Shrub 8–15' high. Sep: 5, green, apex somewhat dotted; Pet: 5, fugacious, twice as long as the Sep:, green, finely dotted, the inner side of the petals densely pubescent; stam: 5, altern:.

7. Vismia mexicana Schlcht
March, 3d.– Shrub 25' high; low level ground.

8. Vismia macrophylla HBK
Febr:.– Tree 20–30' high. Shady woods. Sepals: outside greenish with brown stripes

9. Febr:.– A small prostrate herb. Wet meadows.

10. January – April.– Moist and sheltered places. Stem: reclining.

11. February, 2d.– Moist meadows.

12. February.– Moist places near the sea.

13. January – March.– Sea-shore, low level meadow. ~~Flower: yellow~~ A plant of stunted growth; flower: yellow; ~~[illegible]~~ carpels not armed with bristles; lower surface of the leaves tomentose

14. February.– Sea-shore. Growth of the plant erect; flower: yellow, nearly ½" in diameter; fruit: (carpels) armed with 2 short stout bristles.

No.

15. March.– fruit: nearly sessile; leaves: ~~not tomentose~~ unlike those in No. 13 & 14, not tomentose, upper side very slightly pubescent.

16. March.– Local: foot of a hill.

17. February – April.– Low level meadow; Flower: yellow; upper side of the leaves tinged with red.

18. Sida canescens Cav.
Febr: – April.– Flower: yellow; Fruit armed with long bristles.

19. March.– Shady woods or moist low land; flower pale purple.

20. April, 6th.– Tree 20–25' high; low level places in shady woods; Flower: golden-yellow.

21. March.– 3–4' high; low fertile soil.

22. February.– Shrub 5–8' h.; swampy places; flower: pale-yellow.

23. February.– 4–6' high; low fertile soil.

24. Byrsonima verbascifolia Rich
March, 26th.– tree 20–30' h., small hills; flower: yellow, when more advanced turning to orange color; lower surface of the anthers blackish gray, upper surface white pulverulent.

25. Febr.– April.– Somewhat hilly region; Flowers: yellow.

26. Davilla rugosa Poir
Jan: & Febr:.– Shrub 2–4' h. with long slender somewhat decumbent branches; hilly region.

27. Tetracera volubilis L.
March.– 1–3' high; sheltered by other shrubs in low shady woods. Fruit: 3-angular, of a deep glossy green color.

28. Miconia
March, 1st.– Shrub 8–12' h; shady woods.

29. Miconia
January – April.– Shrub 7–12' h; low land as well as hilly region.

30. Miconia
January – April.– Shrub 12–20' h; low land near the seashore, along the margin of woods; upper surface of the leaves glossy. Pet: 5, white, obovate; stamens: yellow, anthers: conspicuous, brown;

with yellow margin when old; ripe berry: bluish-black.

31\.
Febr. 28th.– Shrub 15-20' high; damp shady woods; leaves: glabrous on both sides.

32. Miconia
March, 4th,– Shrub 10-18' high. damp shady woods; Leav: dotted with translucent dots.

33. Clidemia
January - March.– Shrub 8-18' h; damp shady woods, low land; Petals: 5, white; Stam: red; ripe berries deep blue.

34. Clidemia?
January.– Shrub 10-15' h; moist low-land in the vicinity of the sea-shore.

35. Clidemia?
Jan: - March.– Shrub 10-18' h; damp shady woods; Calyx: 5 toothed, fleshy, cylindrical; Pet. 5, white, retroflexed; Stam: projecting; Style: stout, project; persistent.

36\.
February.– Shrub 10-15' h; damp shady woods; ~~sic~~ plant similar to No. 35. but the base of the leaf is not attenuated

37\.
March, 4th. Shrub 8-15' high; damp shady woods; Pet: white; In some specimens of a more luxuriant growth the base of the leaf is attenuated into petiole form, while in others the leaves are sessile or nearly so.

38\.
March, 10th.– Shrub 6' high; banks of a little stream; Fruit: when ripe of a scarlet color; inflorescence: in the axils especially of the older part of the branches & stems from where the leaves have fallen off.

39\.
March, 15th.– Shrub 8' high; margin of a small stream.

?40
February.– Shrub 8-12' h; low wet ground; branches filled with pith; Flower: red, slender tubular, 1-1¼ inches long; berries: scarlet, numerous.

41\.
March, 1st.– ~~sha~~ plant: 2' high; shady bank of a rivulet.

42\.
March 3d.– 1-1½' high; low humid places near a rivulet; Berries of a fine scarlet color.

43. Serjania
February 14th.– Plant: climbing over shrubs at the foot of hills. Leaflets: sparingly toothed, teeth more or less rounded.

44. Serjania
March, 20th.– Climbing over shrubs; similar to No. 43. Leaflets: entire; Flower: minute, white; Seeds: not so conspicuous as in No. 43; Climbing-Spirals: stouter.

45. Serjania
February, 26th.– Plant: climbing and overtopping shrubs; Fruit: wings surrounding the apex of the fruit also the part of the fruit that encloses the seeds armed with fine but stiff bristles, which like those of some Opuntia-species enter into and adhere to the fingers that touch them.

46\.
February 15th.– Pl: recumbent on shrubs and trees; Creek-bank; Fruit: 3 Samaries together.

47. Stigmaphyllon
February 18th.– Plant: somewhat twining or resting on low shrubs; Flower: yellow; Fruit when young in three samaries together, when older (by suppression of 1) in pairs.

48. Heteropterys?
February 12th.– In low moist places; flowers: yellow, rather showy, 1¼ inches in diameter; Pet: finely pectinate.

49. Brachypteris borealis A. Juss
January - March,– Wet level places & marshes; Plant: somewhat climbing; Petals: 4, yellow, with claws; Fruit: beaked, in pairs as well as solitary.

50. Doliocarpus
February 28th.– Plant: twining; bank of a little river.

51. Inga sp. n.
January 24th.– Tree 20-30' high; River-bank; Calyx ½ inch long, 5 toothed; Corolla: ¾ inch long, 5-toothed, silky pubescent; upper surface of the leaves glossy.

52\.
February 14th.– Plant climbing by tendrils. hills.

53. Hippocratea elliptica HBK?
Febr. & March.– Plant: twining; near a little river; Sep: minute; Pet: green, with 1 or 2 minute vessels at the inner side of the upper half of the petal.

54. Nectandra?
March, 8th.– Shrub 15-20' high; damp shady places in the woods; Leaves: glossy; Sep: 6, white, minute; Pet. none.

55. Polygala paniculata L.
February, 3d.– Low level meadow.

56\.
January, 24th.– Hilly region; fruit: brown; Seeds: black, smooth & glossy when ripe; leaflets: 5.

57\.
January, 26th.– Hilly region, margin of woods; leaflets: 5, glabrous, deep-red; Seeds when ripe: black, smooth & glossy.

58\.
March, 15th.– Plant 2 feet high; margin of a ~~creek~~ rivulet; Berry: scarlet when ripe.

59. Psychotria
February, 25th.– 3-5' high; Alluvial of a creek; Flower: white.

60. Psychotria
March, 15th.– Damp shady woods; Shrub 15-20' high.

61\.
March, 3d.– Plant 1-1½' h; damp shady woods; Sep: 5, greenish-yellow; anthers: white.

62. Psychotria
February 2d.– Shrub 5-10' h; damp shady woods; Corolla: white, 5-cleft, easily falling off.

63\.
March, 20th.– Shrub 8-15' high; Alluvial of a creek; Corolla: yellow, 5-lobed; lobes blue.

64. Psychotria?
February.– Shrub 15-20' high; damp shady woods; lower surface of the leaves grayish; flower: yellow.

65. Palicourea
January - March.– Tree 20-25' h; Alluvial of a creek; Calyx-tube: minutely toothed; flower: yellow.

66 Rhynchosia phaseoloides DC.
March.– Plant: twining; hilly region, seeds: smooth, black, glossy with scarlet eye.

67\.
March, 20th.– The sweet pulp which surrounds the seeds is eaten by the Natives; I did not see the tree.

68\.
January, 22d.– Low level ground, margin of woods; Plant sheltered by shrubs, twining or prostrate where not supported by shrubs; Leaflets: 3; Pod: 1-2" long, blackish, smooth; Fl: large, yellow.

69\.
March,– Plant: twining, in the midst of small bushes; Flower: white.

70. Centrosema Salzmanni Benth.
March, 1st.– Alluvial of a creek; Plant: twining; Fl: purple.

71. Phaseolus truxillensis HBK. var. glabratus
Febr., 2d.– Alluvial-land; Plant: twining; Vexillum: pale-yellowish, wings: purple, keel yellowish.

72. Rhynchosia
January, 18th.– Alluvial-land; Plant: twining; Pod: 2 seed.

73\.
February, 2d.– Alluvial-land; Pl: twining.

74\.
March, 2d.– Bank of a little river (Creek); Plant: twining; flower: blue, in dense racemes.

75. Pachyrhizus angulatus Rich
March, 5th.– Hilly region; Pl: twining; Pods when dry, will open on a sudden and jerk the seeds from 10-15 feet high.

76\.
January, 21st.– Hilly region; growth of the plant erect.

77\.
January, 16th.– Low wet meadow.

78. Desmodium aff. D. incano sed distinctum
Febr. & March.– Hilly region; Plant 2-3' high, growth erect; Flower when young: of violet color, when older: green.

79. Stenolobium brachycarpum var. brachystachyum
January & Febr.– Margin of ~~the~~ woods on low level ground; Flower: small, bright blue.

80. Canavalia obtusifolia DC.
January - March.– Plant trailing along low moist soil of the sea-shore; flower: purple.

81. Erythrina glauca Willd (Duchassaingia Walp)
January, 20th Febr: 15th.– Low swampy ground; tree 20-25' high; flower: orange-color; Keel: extraordinary large; Stamens: projecting.

82\.
January, 20th.– Foot of hills; tree 20-25' high; Petals: yellow; branches armed with short spines.

83. Dioclea sp. n.
February, 10th.– Bank of a Creek (rivulet); Plant: twining up trees; Flower: easily falling off, of a bluish-purple color; wings of a paler shade than the rest of the flower; Calyx: brownish, punctate.

84. Desmodium triflorum DC.
February, 18th.– In patches on sandy soil near the Sea-shore; Plant: somewhat creeping.

85. Cassia occidentalis L.
January, 18th.– Moist places at the foot of hills, a spreading, little shrub 2-3 feet high; Leaflets: 4-5 pair, thin, limber; Pods: 3-4" long, nearly straight, flat.

86. Cassia viminea L. var?
March, 2d.– Hilly region; Shrub 5-10' high; Leaflets: 2 pair; Petals: yellow with red ribs; Anthers: yellow.

87. Pithecolobium (Caulanthon) sp. n.?
January, 11th.– Foot of hills; Leaflets: 2 pair, (some 1½" l, 1" wide); Petals: bright yellow; Pods: 12" long, straight, sometimes falcate, somewhat terrate; Shrub 10-15' high.

88\.
January, 27th.– Hilly region; Pods: 10-12" long, somewhat falcate & terrate.

89\.
February, 15th.– Damp shady woods. Plant of a depressed growth 15-20' h; Pods: transversely veined.

90. Cassia pubescens HBK?
February, 3d.– Damp shady woods, low situations; Plant of a depressed crooked growth, 15-20 foot high; Pods: netted-veined.

91. Mimosa Velloziana Mart.
February, 19th.– Margin of woods; shrub 1-3' high with slender bent-down branches; Leaflets: inequilateral; inclined towards each other in each pair; margin of the Pod armed with spines; Leaves: two-branched, each branchlet containing two pair of leaflets, of which the lower inner one is very minute.

92. Cassia obtusifolia L.
March, 2d. – Foot of hills near low wet places; Shrub 1–2' high; Pods: falcate, 6–8" long.

93. Guttiferae – Gen. nov. Marilae aff.
March, 2d. – Bank of a Creek; Tree about 30' high; Sep: outside red; Petals: greenish-yellow; Leav: punctate with pellucid ~~dots~~ dots.

94.
April, 1st. – Margin of woods near the Sea-shore; Tree about 40' high; keel & wings of the flower: of a fine brownish-purple color.

95. Cassia reticulata Willd
January, 12th. – Foot of hills; shrub 8–15 feet high; Pet: yellow with red veins; Pods: flat, straight 4–5" long; flower & flower buds easily falling off in drying; very much crowded.

96. Mimosa pudica L.
January, 17th. – Low moist meadow; plant 1–1½' high; branches 2–3' long, slender mostly prostrate; growth: in large patches; Leaflets very sensitive to the touch; Pods in dense clusters, margin hairy.

97.
January, 17th. – Foot of hills; Plant 2–3' h. Leaflets very sensitive; Seeds: 8 in number.

98. Mimosa asperata Willd
January – March. – Margin of woods ~~nea~~ a swamp; Plant: 5–8' high; flower: white; Leaflets very sensitive; Pods 3–3½" long, flat, covered with very stiff brown hair: somewhat adnate.

99. Aeschynomene ciliata Vog.
Jan: & Febr: – Swampy places; Plant 5–8' h, much branching; branches spreading, eaten by domestic animals; flower: keel & wings yellow, vexillum: outside deep yellow with red veins; Stem & branches very viscid. Pods: somewhat falcate, consisting of 8 parts.

100.
January, 10th. – Margin of woods near swampy places; Plant 4–6' high; very sensitive, simil: to No. 99, but stem, branches & pods glabrous, & margin of the pods sparingly hirsute. Flower: yellow.

101.
January, 26th. – Foot of hills; Plant: 2' high; lower surface of the leaves silky pubescent.

102.
January & Febr: – Hilly region as well as low moist meadows; Plant 1½–2' high; flower: white.

103.
March. – Hilly region; tree 25' high.

104.
February, 20th. – Foot of hills; Shrub 15' h;

105. Myrtus
February, 4th. – Hilly region; Shrub 5' high.

106. Laetia g.n.?
March, 5–12th. – Margin of woods; shrub 10–15' high; flower: white.

107. Chrysobalanus ellipticus Sol. var.
March, 20th. – Moist shady woods; Tree 20–25' h.

108. Gouania corylifolia Raddi.
February. – Alluvion of a Creek; 6–10' high; flower: minute.

109. Microtea debilis Sw.
Febr: – Foot of a steep rocky hill, in moist shady places.

110. Patabea
March, 24th; – Alluvion of a Creek; shrub 1½–4' high; corolla white; fruit: a red berry.

111.
March. – Margin of a creek; flower: deep purple.

112.
Febr: – Between rocks, margin of a creek; Stamens projecting ½" above the persistent calyx, Stem sparingly hirsute.

113. Pterogastra g.n.
January & February. – Foot of rocky steep declivities, margin of water; herb 3–18" h; flower purple.

114.
January & Febr: – Margin of swamps; 3–6' high; flower yellow; Petal: ¼" long

115. Jussiaea aff. affinis?
February, 9th. – swampy places; Pet: yellow, obovate, mostly 6, smaller than in the preceeding No.; fruit: shorter, stouter, clavate when ripe; calyx lobes: 5–7.

116.
January. – Low moist meadow; Plant 2' high; leaves linear, 1–2½" long, sessile; plant not branched.

117. Passiflora foetida Cav.
January (flowering only in this month). – Plant trailing on the wet sandy beach, a few rods from the margin of the water; flower open only in the morning, lilac color.

118. Tacsonia sanguinea DC
March. – Shady places amongst shrubs; Plant climbing by tendrils; flower: open at different times of the day, of a burning red; Petals 2–2½" long; Stem woody.

119.
March. – Shady humid places in the woods; Plant climbing by tendrils; stem: 4 angular, somewhat winged; Flower: pendant, lilac color; Stamens 5, greenish with brown dots; anthers: white; style purple-spotted; stygma: white. Sepals 5, outside green, inside purple; Petals: 5, altern: inside purple, outside of a paler hue; filaments: long slender bluish-purple with white rings, base ~~wh~~ white to the highth of about ¾", apex whitish.

120.
March. – Margin of a Creek; Plant climbing by tendrils; flower: simil: to No. 119. but smaller; Pet: bluish-purple.

121. Passiflora g.n. aff. P. biflora
March. – Wet swampy places; Plant climbing by tendrils; outside of the Sepals greenish.

122. Passiflora (Astrophea) g.n.
March, – Swampy places; Plant climbing by tendrils.

123. Melothria?
March, 17th. – Low ground, margin of damp shady woods; flower: yellow; plant: climbing by tendrils.

124.
March. – damp shady woods; Plant: climbing.

125.
March. – Ravines; Plant climbing by tendrils; flower of a burning red.

126. Anguria Makoyana Lemaire?
February. – Foot of hills, in shady woods; Plant: climbing; Calyx teeth: red, long slender.

127. Rourea oblongifolia Hook et Arn.
March, 24th. – Damp shady woods. Shrub somewhat twining or leaning; Petals: white, easily ~~falli~~ fading.

128. Connarus g.n.
January 7th in flower, March in fruit; – Margin of woods ~~a~~ near the sea-shore; Petals: yellow.

129.
Febr:; hilly region; 2–3' h; anthers perspicuous, bright yellow; &

130. Cordia peruviana & inequiana DC?
Jan: – March; low level ground near the sea shore; ~~t~~ 15–20' h; fl: expanding first at the apex.

131.
Febr:, damp shady woods; ~~stem~~ 8' high. leav: 3–12" l., margin beset with little warts.

132. Hydrocotyle interupta? Hedera arborea in [illegible]
Jan: 7th. low wet places in the vicinity of the Sea-shore.

133. Eryngium foetidum L.
Jan: – March; low ~~wet~~ moist meadow near the Sea-shore; – 6–14" h.

134. Viscum?
Jan: 8th; upon trees growing in low land; branches quadrangular; berries round, of a champaign color.

135.
~~Jan~~ Febr:; ~~on~~ upon different species of trees, damp shady woods near the swamps; fr: in little spiklets.

136.
January; ~~bor~~ borders of ~~the~~ ~~a~~ swamp; a small tree or shrub 12–20' h, 3" in diameter.

137.
a flower of which I have not seen the tree; February.

138. Chiococca racemosa Jacq. var. ovata
January; margin of ~~the~~ woods fronting the seashore; pl: somewhat twining; berries round white when ripe.

139. Randia obovata HBK
Jan – March; margin of woods fronting the Sea-shore; shrub ~~to~~ 6–20' high, each pair of the opposite branchlets at right angles to those preceeding them: ~~st~~ stout stiff Spines; flowers: white, single in the axils of leaves & branches, ~~a~~ sessile; berries ~~gr~~ white when ripe.

140.
~~Febr~~ March; margin of the river; tree 20–40' high.

141. Sambucus? Spondias aff. S. lutea
March 20th; ~~bor~~ margin of a small river, ~~15~~ 15 20' ~~[illegible]~~ high; fl: white.

142. Febr: 2d; in and near the swamps, 1–3' h.; fl: white; apex of the pistils: purple.

143.
Jan: – March; damp shady woods or margin of swamps & low level meadow; 1–5' h.; upper surface of the leaves glabrous, lower one silvery tomentose.

144. Borreria spinosa Ch. Schl.
Jan: – March; margin of woods & moist level meadow; pl: 1–2' h;

145. Spermacoce tenuior L.
January 12th margin of swamps; pl: 1–2' h:; pet: ~~#~~ 4, white, plumate on the inner side.

146. Diodia scandens Sw.
Jan: & February; margin of swamps ~~2–4' h~~, amongst shrubs; ~~wit~~ some branches several ~~feet~~ long prostrate, others erect 2–3' h.

147.
Jan: 20th; low level meadow; 1–2' high. stem quadrangular.

148. Morinda
Febr: 10th, ~~damp~~ damp shady woods low ground; tree 20–30' high; pet: 5, white, lobes over ½" l., recurved; stam: 5, altern: not much higher than the corolla throath; pist: projecting with (2 stigmas nearly ¼" long.)

149. Spennera rostellata Naud
Jan: – March; in low swampy places; 1–3' h; stem: quadrangular; branchlets 4 winged; pet: 4, white.

Compositae.

150.
Febr: 8th; ~~pl:~~ margin of damp shady woods; pl: 5–10' h. flowerets: ¼" l. white, with 2 ~~white~~ curved pistils projecting above; flowerets ¾ far above the chaff –

151.
Febr:; hilly region; pl: twining;

152.
Febr: 20th; ~~hilly region and~~ margin of damp shady woods, stam: brownish yellow projecting above the chaff. pl: 5–8' h.

153.
Febr 25th; hilly region; 5–~~10~~' h:; leaves; pedicles & peduncles: very thin & limber.

154.
February, 20th; hilly region; 5–8' h.;

155.
Febr: ~~8th~~; low swampy region; 4–6' ~~hilly region~~; 5–~~10~~' h; upper leaves 4–5" long, narrow, lower ones 2–3 lobed ~~cleft~~, the central ~~division~~ lobe ~~a~~ vastly predominant in size; fl: of a ~~golden~~ greenish yellow ~~glo~~ lustre.

156.
Febr: 20th; low swampy region; 5–8' h; chaff: ~~dense, hiding~~ very fine & dense, hiding the flowerets.

157.
Febr: 2d; hilly region; 4–6';

158.
Febr:; ~~hilly~~ foot of hills; 1–3' h. branches: long slender; leaves: deep ~~gre~~ bluish green.

159.
Febr:; pl: twining; hilly region.

160.
Febr: 1st; margin of damp shady woods. 5–8' h,

161.
1st March & 10th; margin of damp shady ~~w~~ woods; 4–6' h;

162. ~~Febr~~ Febr: & March; foot of hills; 6-15" h.

163. ~~Febr~~ March; margin of woods, in low moist places; 1-3' h;

164. Jan:, 9th low bottom-land; pl: 2-3' h;

165. March; creek-bottom; about 1' h.

166. Febr:; low places near the sea-shore; 6"-2' h.

167. March, 2d; low moist land; pl: 10-15' h. pet: bright yellow.

168. Jan & Febr:; pl: creeping in low places along the beach; flowers yellow, rays bright yellow.

169. Eclipta
Febr:; low swampy places; herb prostrate

170. January; hilly region; petals yellow.

171. ~~Feb~~ January - Febr:; ~~hilly region~~ margin of damp shady woods & open ~~fl~~ level ~~open~~ places. fr: 4 parted.

172. March, 1st, damp shady woods in the neighbourhood of a little riv:, 3-5' h.

173. March; hilly region; 1½-2½' h;

174. January; high bank of a small river. 5-15' h; fl: fine red.

175. Jan: - March; low moist meadow; 1-2' h; fl:-heads containing 4 white flowrets.

176. February 4th; creek-bottom; 2-3' h;

177. Cephaelis tomentosa Willd
Jan: & Febr:; hilly region; ~~deep fiery red~~ pl: 3-8' h; ~~fl:~~ involucre, deep fiery- or scarlet red; flowrets: yellow.

178. January; pl: growing upon the lower part of the trunk of Cocoa-nut & and other trees; venation of the leaves hidden?; fr: a berry of a reddish blue color when ripe.

179. Coccocypselum aff. C. repente
January ~~-M~~ & Febr:; swampy places (creeping) near the base of trees, and upon roots (Epiphytes) berries: fine deep blue color, glossy

180. Rubiacea sp. n.
Jan. - ~~Febr~~ & March; in ~~low~~ ~~of~~ swampy places, ~~twining~~ amongst shrubs, twining; petals: 5, white; berries, in ~~the~~ clusters in the axils of the leaves, blue when ripe.

181. Rubiacea sp. n.
March; hilly region; erect or nearly so; 6-10' h; fl: white.

182. Eugenia
March; margin of damp, shady woods; shrub ~~8~~-8' h; fl: white, ~~odoriferous~~;

183. Febr:, 27th; damp shady woods; fl: pure white, odoriferous

184. Tabernaemontana?
Jan: - March; low swampy places; ~~twines for support upon the shrubs & trees~~; 10-30' high; ~~calyx greenish white~~ (corolla) ~~fl:~~ pure white, 4 lobed (lobes reflexed) ends of the. From the (newly cut) branches there exudes from the centre & around the cut (inside of the bark) a very sticky white substance which ~~hard~~ hardens on the atmosphere & can be drawn out into threads.

185. Casearia (Piparea)
Febr: 8th ~~17~~ ~~March 2d~~; margin of damp shady woods; 3-8' h; ~~fl: white~~. sepals: 4, ~~white~~ ~~with~~ reflexed, outside greenish white, inside white; pet: none; stamens: 10 ascending; ~~& the~~ another set of stam:? ~~feath~~ plumose, 10, alternate with the first; style: 3 parted.

186. Casearia (Crateria) C. sylvestris aff.
January, 20th; shady wood; a slender shrub 5-8' h;

187. Guettarda
Febr: 12th; deep shady woods; tree 25-~~40~~ 35' high; leaves to be found only at the apex of the branches and ~~so~~ rather crowded together; fl: white, ~~of the size~~ of situated ~~at~~ around the (naked) stem & branches ~~at~~

188. Febr:, 8th; ~~Creek to~~ bank of a small river, 6-10' h. calyx green, 4 toothed, partly opened; stam: projecting but very little; pet: none.

189. ~~Febr~~ January 15th; low bank near the mouth of a ~~sm~~ creek; shrub 3-5' h. with long, slender straight branches, densely beset with leaves; 1-2 ~~small~~ red berries in the axils of the leaves.

190. Febr:; damp shady woods; shrub 15-20' fl: greenish yellow.

191. Cassipourea elliptica Poir
March, 11th; low land shady woods; shrub 5' h; sepals: 4-5, green, thick; ~~of~~ open ~~at~~ in flowering only in ~~narrow~~ chinks, ~~barely~~ wide enough to let the style & some of the stam: protrude.

192. Casearia (Iroucana)
March; margin of damp woods, in ~~the~~ more exposed localities; shrub 3-6' h; sep: 5, ~~fl:~~ white, reflexed ~~berries: blue when ripe~~. pet: none; stam: parallel with the axis of the fl:

193. Erythroxylon
Febr: 26th; damp shady woods, in low ~~si~~ places; shrub 5-8' h, with slender branches; ~~fl: greenish white~~; fr: ~~ca~~ of a scarlet color, oval & smooth, seeds surrounded with a pulp which when dried up, makes the fr: ~~appear~~ ~~furrowed~~ furrowed and the appear quite different.
April 1st sep: green; pet: white

194. Flacourtia sp. n.
Febr: 20th, margin of ~~the~~ damp woods; tree 15-20' h, spreading very much; sep: green; pet: none, stam: indefinite, yellow, giving the whole fl: a yellow appearance.

195. Cestrum
March, 5th; margin of damp woods, near swamps; shrub 8-12' high; fl: white

196. Monimiacea
March, 1st, foot of the ~~steep bo~~ the steep & wet banks of an ~~creek~~ over shadowed creek; 5-15' h. ~~f~~ erect growth; fruit: green.

197. Solanum
Febr: in fr:, March in fl:; shady woods margin of ~~a sw~~ the swampy region; pl: leans & hangs upon shrubs & trees for support; ~~twining~~; calyx: greenish white, thick & ~~very~~ fleshy, consisting of five 2-parted or 2-divided ~~sep~~ sepals forms a starshaped body; corolla: greenish yellow, 5 lobed lobes connected by a thin film.

198. March; ~~hill~~ low places ~~at th~~ bank of a small river.

199. Febr:; low swampy places, ~~herb~~ & low herb.

200. Blechum Tweediei Nees?
Febr: & March; low moist bottom-land; 2-2½' high;

201. January; low woods; ~~shrub 10-20' h,~~ leaves in whorls 4; fl: ~~la~~ yellow, ~~large~~ on short peduncles; throath of the corolla 1½" long, narrow; corolla 1½-2" wide at the apex, 2" long.

202. Febr:; low wet bank of a small riv:; pl: 2-4' h; stem: quadrangular, thickened at the nodes

203. March 16th; fallen off flowers from a tree 80-100' high, ~~inaccessible to me~~, with the leaves & flowers high in the top, inaccessible to me; the ~~blu~~ grayish blue flowers were in such dense masses as to ~~give~~ make the tree ~~a~~ very perspicuous amongst all the rest, by its blue hue; hilly region.

204. March, 3d, low moist land ~~among~~ not far from a small river, 2-5' h; fl: red, transparent.

205. March, 10th, ~~f~~ low moist region; fl: white with purple.

206. March, 26th; margin of a swamp, damp shady place, pl: climbing; ~~by~~ fl: white.

207. Macfadyena
Jan: - March; margin of the river, swampy places; pl: climbing by a 3-digitate curved & ~~rather stiff~~ firm appendage, terminating in sharp claws ~~taken~~ able to take a firm hold.

208. March 13th; damp shady woods, ~~swamp~~ low region; 8-10' h; fl: deep scarlet.

209. Aphelandra [illegible] Nees
Febr:; ~~low wet~~ bank of a ~~small~~ little river; shrub 8-12' h. corolla ~~[illegible]~~ 2" l. lively red; ~~fl~~ scales of the flowers ~~[illegible]~~ red; styles ~~[illegible]~~ often 3 persistent, long & slender.

210. Febr: 10th; margin of damp woods; shrub 10-14' h, leaves: stout ~~&~~; flower: orange color.

211. Herpestis repentiflora Benth
Jan - Febr:; swampy places; pl: 2-3' h; stem: quadrangular.

212. March, 2d; low moist meadow; low prostrate herb; fl: & fr: partly hid ~~by~~ between 2 smaller leaves; fl: blue.

213. Herpestis chamaedryoides var latifolia
March; ~~dryer part of a mea~~ near the sea-shore; low somewhat creeping herb, leav: glabrous; fl: yellow; fr: hid between 3 leaflets.

214. January, 8th; low meadow;

215. Stemodia parviflora Ait
Jan: 8th; low flat ground near the sea-shore; ~~stem~~ 3-6" h:; stem & young leaves white hairy; corolla: white.

216. Stemodia sp. n.?
Febr:; ~~low~~ locality the same with 215.

217. Herpestis Monniera HBK
March, 3d; low moist places near the sea-shore; corolla 5 lobed, light lilac bluish purple color; throath of the corolla-tube brown stam: 4, 2 long. & 2 short-ones; anthers & stigma: greenish blue.

218. Febr: 1st; low ~~mo~~ meadow.

219. Stachytarpheta jamaicensis Schrad
Jan: 25th; ~~low~~ sea-shore; a prostrate plant with quadrangular stem; spike 16-24" l: fl: blue

220. Lippia geminata HBK
January; low moist meadow; shrub 4-~~5~~ 5' h; fl: yellowish white;

221. Hyptis verticillata Jacq.
January, ~~8th~~ & March low meadow near the sea shore; pl: 2-3' h, ~~near the~~ fl: in small clusters around the nodes of stem & branches; calyx: oval, glabrous, minute; fl: minute.

222. Febr:; foot of hills; ~~3-5~~ 2-3' h,

223. Febr:; between rocks of the exposed parts of a creek-bed, margin of the water; 1-2' h; fl: purplish,

224. January; foot of hills near rivulets; 1-2' h; fl: light ~~bluish purple~~.

225. Blechum?
January - March, low meadow, & margin of ~~the~~ damp shady woods. 6"-18" h; stem bent at the nodes into an angle.

226. Hyptis spicata Poit. β. rostrata
Febr: - March; hilly region near water courses, ~~herb~~ 5-10' h; fr: ascending.

227. March, hilly region; ~~branch at~~ 2-2½' h, stem & branches quadrangular.

228. Rhytiglossa A. secunda ?

March; foot of hills; 2-3' h; branches of a deep green, ~~color~~, contracted a little above the nodes ~~&~~; corolla 1½" l: ~~red~~ deep purple; style filiform (~~[illegible]~~) 2" l, persistent ~~to the~~, calyx ½" l.

229. Febr: foot of hills; ~~stem~~ 1½-2½' h; stem quadrangular; fl: white in little heads

230. Ocymum micranthum Willd

March; margin of woods, low ground; pt: 12-18" h; stem quadrangular; fl: minute, bluish white.

231. Hyptis capitata Jacq

January & Febr:, margin of damp ~~low~~ woods; ~~in~~ pt: 2-6' h; fl: minute, white, irregular ⁘; stem: quadrangular.

232. Tournefortia laevigata Lam

March; margin of ~~swamps~~ ~~[illegible]~~; herbaceous shrub 5-10' h; corolla: monopet: white, margin lapped together in 5 parts,

233.

Heliotropicum ?

Jan-March; level & moist meadow near the sea-shore, 1-2' h; fl: blue.

234 Tabernaemontana grandiflora L.

Jan ~~Febr~~:-March; margin of woods & fronting the sea-shore; shrub 5-15' h; fl: yellow twisted in aestivation, 2" in diam:; fruit: ~~[illegible]~~ in pairs, broadly falcate, apex pointed downwards; from the ~~wounded~~ & parts of ~~the~~ branches a white ~~[illegible]~~ viscid juice exudes.

235.

March, 15th; margin of woods & fronting the sea-shore; pt: somewhat twining & pendant; fl: yellow; seems to be the same with 201, but the ~~stem~~ branches & the ribs of the leaves are not hairy like 201.

236. Hydrolea spinosa L.

Jan:-March; margin of open low swampy places, and ~~banks~~ at the foot of hills; shrub 2-5' h; fl: bright blue on short peduncles in the axils of the leaves.

Convolvul:

237. Aniseia

January-March; ~~wet~~ ~~low~~ ~~swampy pl~~ low wet places; pl: twining; fl: white, 1" wide; ~~the~~ apex of the leaves running out into a bristle.

238. Manettia cuspidata Bert.

Febr:; & shady woods on low ground; pl: twining; corolla: deep red, narrow 4 lobed, calyx ~~sep~~: green, 4 ~~[illegible]~~ lobed, lobes: 2 divided.

239. Ipomoea pes caprae L.

January 8-29th. Creeping in different directions over the loose & wet sand of the low beach; branches very tenacious and used ~~for tieing bundels together~~ & sometimes as a substitute for rope by the natives. fl: bright copper color, 3½" in diam:, leaves: ~~[illegible]~~ somewhat fleshy.

240. Batatas acetosaefolia Chois

Jan.-Febr:; creeping over grassy places ~~[illegible]~~ of the beach; fl: white 1¼" in diam:

241. Ipomoea umbellata Roth

Jan-March; low ground in shady woods; ~~in~~ ~~low~~ & ~~near~~ banks of water courses pl: twining; pl: yellow, showy.

242.

Febr:, ~~low~~ ~~[illegible]~~ swampy places, shady woods; twining; fl: purple; calyx consisting of scales somewhat ~~hardened~~ & dry.

243.

Febr:, shady woods; pl: twining; fl: purple; calyx; consisting of soft leaflike scales the apex running out into an awn; involucre below the calyx.

244.

March; margin of shady woods; pl: twining; fl: deep purple; calyx ~~of the fl:~~ consisting of leaflike sepals.

245.

January, 8th; Low, swampy places; twining; (~~Foo~~ high shrubs) & and overtopping did not see either flowers nor leaves.

246.

January; margin of woods, low level region; pl: 5-15' h; leaves upper surface ~~glabrous~~ & lustre, lower surf: yellowish white densely tomentose.

247.

January, low open places & ~~not~~ fronting the sea-shore. pl 1-2' high; leav: thin, entire or ~~glabrous~~, 5-6 toothed, fl: ⅓" long, yellow;

248. Physalis

January 8th low sandy place near the sea-shore; pl: ~~1-3~~ 2½' high; stem & branches densely pubescent; corolla yellow with black spots.

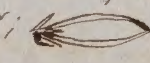
249.

January; hilly region; pl: 1-2½' h, fl: yellow.

250. Hemadictyon sp.

Jan: & March; low ~~marshy~~ wet places, margin of ~~[illegible]~~ rivers and damp shady woods. pl: twining; ~~fl: in clusters~~ lobes of the corolla; deep yellow with a ~~[illegible]~~ ~~sulphur~~ bright sulphur colored ring around the apex of the tubular throat.

& standing at right angles with the ~~cor~~ corolla ~~tube~~, throath.

fr: consisting of 2 falcate podlike long slender & with their apexes grown together; 

251. Solanum

March, 25th; creeks ~~hilly~~ valleys ~~to~~ in ~~the~~ of hilly region; shrub; 10-20' h; fl: light yellow, minute.

252. Solanum

March, 20th. hilly region; shrub (timber) ~~pt~~: 5-10' h; pet: 5, white.

253. Solanum

Jan-March; margin of damp woods low ground; pt: 3-6' h; long slender branches ~~sometimes~~ ~~[illegible]~~ somewhat climbing or resting; inflorescens: between the internodes, branches stem & midribs of the leaves armed with stout recurved spines; upper surface of the leaves rough (warty?) lower surface: whitish; leaves 6-7 cornered also entire. fl: blue.

254. Solanum

Febr: & March; margin of ~~& open~~ damp woods & open places between them; shrub 8-12' h; ~~fl: the~~ corolla: & bluish white. leaves: tomentose on both surfaces; inflorescens between the internodes.

255 Maripa M. scandens Aublet

March; damp shady woods; climbing by long slender tendrils 12-14" l. and overtopping ~~to~~ shrubs & even trees; corolla: ~~fl:~~ light lilac; plaited in aestivation; the ~~outside~~ that part ~~of~~ of the corolla which is outside in aestivation; velvet pubescent.

256.

March; foot of rocky hills; fl: purple!

257.

January-March; near or in the water along ~~rivers~~ low banks of the river. pl: twining; fl: white, funnel shaped; 2" l, 1" wide ~~at the top~~ when expanded;

258.

Jan:-March, low wet places near the sea-shore, 2-3' h. fl: ~~reddish~~ ~~red~~ yellowish red; pl: very difficult to dry.

259.

January; ~~foot of a~~ between rocks, dry hilly ~~pt~~ region; a small herb with bluish ~~deep~~ green leaves.

260.

January; hilly region; a herb 2-4' h, growth erect.

261.

January; moist meadow; 8-16' h;

262.

January; margin of the woods, in grassy places; low herb.

263.

January, 7th; low wet places near the sea-shore.

264. Potomorphe peltata Miq

March; ~~low~~ ~~shady places~~ low shady woods; ~~somewhat~~ twining ~~[illegible]~~

265.

March; on ~~close~~ the base of halfrotten trees, in damp shady places.

266. Artanthe

March; margin of low woods, shady places pt: 2-6' h; leaves ~~bluish~~ & stem: deep ~~bluish~~ green.

267.

March; damp shady woods; 2-4' h; sim: to 266, but differing in the fruit.

268. Artanthe

March; margin of woods; 3-6' h,

269. Artanthe

March; shady, low woods; pl: 8-15' h; ~~pl~~: similar to 268, but leaves cordate at the base; upper surface of the leaves rough & hard ~~[illegible]~~ to the touch, if passed over from the apex towards the base.

270. Artanthe

January-March; margin of low shady woods fronting the sea-shore; upper surface ~~[illegible]~~ of the leaves glabrous & of great lustre.

pl: 4-7' h.

271.

March; foot of hills; 6-10" h; leaves dotted with brown dots.

272.

March; ~~[illegible]~~ margin of wood, fronting the sea shore; pl: decumbent; fl: white.

273.

Febr: 25th; meadow, margin of woods; ~~meadow~~ 8-14" h; fl: minute green.

274. Euphorbia pilulifera

January-March; low places ~~in~~ near the sea-shore, decumbent.

275. Euphorbia hypericifolia

Febr: 27th; margin of woods fronting the sea-shore; pl: ~~ere~~ of erect growth; fl: minute, white.

276. Euphorbia (Chamaesyce)

Febr:; margin of woods, fronting the sea shore; pl: adnate to the ground. margin of the leaves ~~mostly~~ red.

277. Euphorbia hypericifolia

March; margin of woods, fronting the sea-shore; pl: decumbent; seeds 4 angled ~~cornered~~ with little cavities.

278. Euphorbia (Chamaesyce)

March; locat: ~~[illegible]~~ with the preceding No;

pl: adnate to the ground.

279. Dalechampia heterophylla Poir

Febr: & March; damp shady woods, and banks of ~~creeks~~ little rivers; pl: twining.

280. Myriocarpa stipitata Benth

~~March, 1st Febr~~ hilly region steep bank of a small river; shrub 10-18' h;

281. Acalypha leptostachya HBK?

March, 1st; ~~low~~ ~~woo~~ ~~[illegible]~~ ~~woods~~ margin of openings in damp somewhat marshy ~~low~~ woods, ~~low~~ ~~ground~~; shrubs 10-20' h; catkins: greenish yellow.

282. Lacistema

~~Mar~~ Febr: 29th; shady; somewhat marshy woods; shrub 8-15' h; catkins: white.

283.

January; & moist banks of a ~~small~~ rivulet; herb ½-2' h; leaves in whorls of 4; fruit in 2: facing each other.

284.

February; bottom land ~~a~~ ~~margin~~ of a river, shady places; leaves deep green.

2 285. Ficus
March; damp marshy woods; tree 40–50' ~~60~~ h, bearing fr: in great abundance; which is eagerly sought after by ants.

286. Ficus
March, damp shady woods; shrub, 15–20' h.

2 287. ~~Umbaluri~~ Coccoloba uvifera
~~Febr:~~ Jan: & Febr:; low level land at the margin of ~~the~~ woods fronting the sea-shore; tree 30–~~50~~' h, branching ~~fro~~ near the base ~~of the~~ ~~stem~~; fl: white. leaves: thick & stiff. stems often inclined & depressed.

2 288.
Febr:; margin of woods, shrub 5–8' h, fl:-spike 6–8" l; corolla throath 1/2" l, narrow, fl: white.

2 289. Gen. nov. Rondeletiearum?
Febr: & March; ~~swampy~~ ~~p~~ low margin of swamps ~~&~~ near the river; shrub 4–8' h,

290. Aithoroxylum
Janu:, margin of woods near the sea-shore; tree 25–30' h.; ~~in~~ flower: white.

2 291. Ruyschia
Febr: 10th, shady woods in a low swampy region; ~~pl:~~ ~~an~~ a stout arborescent ~~twiner~~ ~~plant~~ pl:, (tree?) somewhat twining or leaning over other trees with ~~them~~ their slender branches somewhat pending, & sending out aëreal rootlets; peduncles 1 1/2" l:, ~~at~~ ~~the~~ very stout; fl: having at the lower part of the calyx a singular appendage like 2 ears; they are of a brownish purple color ~~red~~ and somewhat twisted, fleshy; the beak green; sep: in 2 rows, adnate; pet: 5, green, recurved like a crown, stam: alt: 5, reddish color, at right angles to the axis of the flower; anthers somewhat recurved, exuding a brownish greasy liquid.

292. Croton
March, 24th; hilly region, margin of woods; sep: green; petals: minute, white.

2 293. Posoqueria
March, 21st; ~~low~~ damp shady woods; ~~tree~~ shrub: 12–15' h; lower part of the corolla green, upper part pure white; anthers: brown. — (fr: v: № 1st)

294.
January; in swampy places; fl: white.

295. Blakea sp: n?
March, ~~ne~~ damp shady woods ~~near~~ at the margin of ~~sw~~ wet swampy places; shrub, 10–20' h,

296.
April, 2d in & near ~~swamps~~ marshy places in shady woods. leaves ~~s~~ thick.

297. Begonia Humilis Dryand.
~~March 30th~~, April 1st, low wet places in shady woods; pl: 6"–14" growth erect; petals: 4–5, white, anthers: yellow.

298.
March; ~~damp shady woods~~ hilly region bank of a rivulet; fl: ~~white~~ greenish white.

299.
Febr:; margin of shady woods near swamps; shrub 8–12' h.

300
April, 3d; margin of damp shady woods fronting the seashore, shrub 2–3' h; calyx: green; Corolla: white,

301.
Febr: 20th creeping over fallen ~~stems~~ trunks of trees; in ~~moist~~ low moist places in the woods. Ants have injured the ~~flower or~~ fruit.

302. Peperomia pellucida HBK
Febr:; low grassy places, ~~on the low~~ near the sea-shore; a low herb semi-transparent; fr: ~~in~~ little globulous bodies in spikes 1–1 1/4" l.

303.
~~Mar~~ Febr:, hilly region, bank of a rivulet. ~~fr:~~ shrub 6–8' h; fr: ~~in~~ generally in 4s, leaves stout,

304. Quassia amara L. var grandiflora
~~fr: in 4~~ January; margin of shady woods, ~~fl~~ fronting the sea shore; shrub 8–12' h; fl: scarlet 1–1 1/4" l, not widely opened (expanded; base of the stamens tomentose; fruit: in 4 inserted ~~around~~ around a ~~thick~~ ~~th~~ fleshy receptacle.

305. Doliocarpus
Febr:; shady woods; pl: somewhat twining. fl: yellow.

306.
January, 8th; margin of little streams, ~~tree~~ shrub, 10–20' h. pet: fugetive, ~~st~~ fl: white.

307. Cochlospermum hexaphyllum DC.
Janu & Febr:; margin of woods; tree 30–40' h; flowers yellow, 2 1/2" in diam. when expanded.

308. Anacardium occidentale L.
~~January~~ January; margin of woods fronting the sea-shore; small trees ~~little~~ ~~shrub~~ ~~of~~ 15–20' high; petals: 5 ~~narrow~~, greenish-white (with red ~~str~~ lines ~~in~~ along the centre, linear, accuminate retroflexed; style projecting; green fruit giving out a greasy substance in being ~~cut~~ split. Receptacle or torus: when full grown 2 1/2" long, 1 3/4" in diam: at the end bearing the fr:, 1" at the opposite end, resembling in shape a ~~some kinds~~ of pears; ~~fruit very hard~~ of fine yellow colour, tinged with red at the sunny side, pendant, very mellow & juicy when ripe and sold as an eatable fruit, but to me it had a somewhat astringent taste.

309.
Janua:; deep shady woods; tree 30' h; fl: yellow; sepals; brownish tomentose with black spots

310. Pachira
Febr: & March; margin of woods fronting the sea-shore; tree 70–80' high, could see no leaves on them during my 3 months stay at Chagres. trunk armed with short but stout spines; petals 3' l, narrow, inside white outside brown & somewhat tomentose; stam: as long as the petals.
April 1st a young leaf. (distrib: to set № 1)

311.
~~Mar~~ Febr:; low swampy margin of the river; tree 30–70' h; pet: 5, imbricat 10"–12" l, narrow inside white; outside greenish yellow; could not get ~~reach~~ ~~as~~ any of the leaves.

312. Pachira
January, 6–15th; low ~~a~~ moist bank of the river; tree 20–50' h; lower part of the trunk conical, bark ~~of~~ lively green; petals 2 1/2–3" long; inner ~~side~~ surface of the pet: ~~pure~~ white, outside greenish brown.

313.
January; hilly region; shrub 5–8' h; fl: white.

314. ~~Ardisia~~ Ardisia
February, 20th; margin of woods ~~fr~~ fronting the sea-shore. 10–20' h ... red, pet: 5, white, much recu... erect as in Solanum; ~~be~~

315.
March; foot of hills;

316. Moronobea globulifera
March, 17th; deep shady ground; tree 50–60' ... lish) 3/4 of each pet: in... one to the right; stam: ... their bases as far as the ... adnate to the out-side of the stamens, 3 to each stam:, in the bud yellow, but afterwards black; pistils: 5, red, alternate

317. Ternstroemia dentosifolia HBK
March, 24th; ~~small trees~~ margin of woods hilly region; small trees 15 ... sepals: reddish yellow; pet ... yellow apex.

318. Gen. nov. Laurydeis affinis?
March, 18th; deep shady w... a ~~small~~ tree 6" in diam:; 20 ... green; corolla: none.

319.
March, 5th; margin of woods; shrub ~~sep:~~ pedicles, peduncles & sepals; purple, petals: white tinged slightly with red; anthers erect, accuminate.

320.
April, 8th; ~~shrub~~ margin of woods; shrub; fl: white.

321.
January; hilly region;

322.
February; lower part of ~~bank~~ of a creek bank, ~~margin~~ in moist fertile soil.

23.
Febr:; low ~~swa~~ marshy river bank, in the woods. tree, 30–40' h.

324.
January; ~~ba~~ lower part of a steep creek-bank, near the water.

325.
January; local: with the preceding; 2–3' h;

326. Apeiba
Febr: 4th; hilly region, margin of woods; ~~shrub~~ 15–20 ~~h with~~ ~~spreading~~ of crooked growth & with spreading branches; fruit: flattened.

327.
February 28th; hilly region; pl: twining; fr: a kind of a pod containing 1 greenish black seed with dimpled surface.

328. Bixa Orellana var. fructu depresso
January; margin of woods fronting the sea-shore, low sandy beach; ~~tree~~ a low shrub also trees 20–30' h; fr: covered with ~~somewhat~~ limber spines.

329.
January; damp shady woods, 15–20' h.

330. Drepanocarpus?
March, 20th; hilly region; a ~~limber~~ limber ... ng & resting upon other ... wers: not yet expanded, ... n.

... nocotyledonae.

... ; ~~on~~ damp marshy ... ~~leaf~~ trunks of live trees ... 5' ~~abo~~ from the ground ... llow. ~~I was unable to dry~~ difficult to dry.

332.
Jan:– March; damp marshy woods) on exposed roots & on the ~~bases of~~ + lower part of trees; flower red.

333
... ; ~~on expo~~ damp marshy woods on ... d roots & the ~~bark of~~ ~~ste~~ trunks ... s.

... ; on ~~the de~~ dead trunks of ... , ~~flower~~ in damp shady woods; ... llowish green.

335.
March; margin of woods; twining & climbing by petioles; fl: reddish brown.

336. ~~fruitfer:~~ ~~sp:~~ specim: of 335?
March; local: with 335.

337.
March; ~~wet~~ ~~sw~~ marshy places, in shady woods; pl: 2–3' h. fl: white.

338.
April, 6th, marshy places in the woods near the river; 4–5' h; flower: white

17/3 50. Chagres. A high tree
fl: red. pet: 5 red, 3/4 of ~~the~~ each pet: is imbricated by the next follow: to the right; stam: 5, red, coherent by their lower parts as far as the anthers. anthers adnate to the out side of the stamens 3 to each stamen, in ~~the~~ the bud yellow, but afterwards black; pist: 5, red, altern:
№ 316.
~~№ 1~~

like a crown, stam: alt:; 5 reddish colour, at right angles to the axis of the flower; anthers somewhat recurved, exuding a brownish, ~~green~~ greasy liquid
~~№ 14~~
№ 291.

2 285. Ficus
March; damp marshy woods; tree 40-50' ~~60~~ h, bearing fr: in great abundance; which is eagerly sought after by ants.

286. Ficus
March, damp shady woods; shrub, 15-20' h.

2 287. ~~Umbellini~~ Coccoloba uvifera
~~Febr~~ Jan: & Febr:; low level land at the margin of ~~the~~ woods fronting the sea-shore; tree 30-~~50~~' h, branching ~~fr~~ near the base, ~~of the stem~~; fl: white. leaves: thick & stiff. stem often inclined & depressed.

2 288.
Febr:; margin of woods, shrub 5-8' h, fl:-spike 6-8" l; corolla throath ½" l, narrow, fl: white.

Gen. nov. Rondeletiearum?
2 289. Febr: & March; ~~low~~ ~~swampy pl~~ margin of swamps ~~&~~ near the river; shrub 4-8' h.

2 290. Citharexylum
Janu:, margin of woods near the sea-shore; tree 25-30' h.; ~~in~~ flower: white.

291. Ruyschia
2 Febr: 10th, shady woods in a low swampy region; ~~pl:~~ ~~an~~ a stout arborescent ~~twiner plant~~, (tree:) somewhat twining or leaning over other trees with ~~their~~ slender branches somewhat pending, & sending out aëreal rootlets; peduncles 1½" l:, ~~at the~~ very stout, fl: having at the lower part of the calyx a singular appendage like 2 ears; they are of a brownish purple color ~~red~~ and somewhat twisted, fleshy, the beak green; sep: in 2 rows, adnate; pet: 5, green, recurved like a crown, stam: alt: 5, reddish color, at right angles to the axis of the flower; anthers somewhat recurved, exuding a brownish greasy liquid.

292. Croton
March, 24th; hilly region, margin of woods; sep: green; petals: minute, white.

2 293. Poroqueria
March, 21st; ~~low~~ damp shady woods; ~~tree~~ shrub: 12-15' h; lower part of the corolla green, upper part pure white; anthers: brown. — (fr: v: No. 1st)

294.
January; in swampy places; fl: white.

295. Blakea sp. n.?
March, ~~near~~ damp shady woods ~~near~~ at the margin of ~~sw~~ wet swampy places; shrub, 10-20' h.

296.
April, 2d in & near ~~swamps~~ marshy places in shady woods. leaves ~~so~~ thick.

297. Begonia humilis Dryand.
~~March 30th~~, April 1st, low wet places in shady woods; pl: 6"-14" growth erect; petals: 4-5, white, anthers: yellow.

298. March; ~~damp shady woods~~ hilly region, bank of a rivulet; fl: ~~white~~ greenish white.

299. Febr:; margin of shady woods near swamps; shrub 8-12' h.

300 April, 3d; margin of damp shady woods fronting the seashore, shrub 2-3' h; calyx green; corolla: white,

301. Febr: 20th creeping over fallen trunks ~~stems~~ of trees; in ~~moist~~ low moist places in the woods. Ants have injured the ~~flower or~~ fruit.

302. Peperomia pellucida HBK
Febr:; low grassy places, ~~on the low~~ near the sea-shore; a low herb semi-transparent; fr: ~~in~~ little globulous bodies in spikes 1-1¼" l.

303. ~~Mar~~ Febr:, hilly region, bank of a rivulet. ~~fr:~~ shrub 6-8' h; fr: ~~in~~ generally in 4s, leaves stout,

304. Quassia amara L. var. grandiflora
~~fr: in 4~~ January; margin of shady woods, ~~fl~~ fronting the sea shore; shrub 8-12' h; fl: scarlet 1-1¼" l, not widely opened (expanded); base of the stamens tomentose; fruit: in 4 inserted ~~around~~ around a ~~thick the~~ fleshy receptacle.

305. Doliocarpus
Febr:; shady woods; pl: somewhat twining. fl: yellow.

306.
January, 8th; margin of little streams, ~~tree~~ shrub, 10-20' h. pet: fugitive, ~~st~~ fl: white.

Cochlospermum serratifolium DC.
307. Janu & Febr:; margin of woods; tree 30-40' h. flowers yellow, 2½" in diam. when expanded.

308. Anacardium occidentale L.
~~January~~; margin of woods fronting the sea-shore; small trees ~~little shrub~~ ~~of~~ 15-20' high; petals: 5 ~~narrow~~, greenish-white (with red ~~str~~ lines ~~in~~ along the centre, linear, accuminate at the apex, retroflexed; style projecting. green fruit giving out a greasy substance in being ~~cut~~ split. Receptacle or torus: when full grown 2½" long, 1¾" in diam: at the end bearing the fr: 1" at the opposite end, resembling in shape a ~~some kinds of~~ pear; ~~fruit very hard~~ of fine yellow colour, tinged with red at the sunny side, pendant, very mellow & juicy when ripe and sold as an eatable fruit, but to me it had a somewhat astringent taste.

309.
Janua:; deep shady woods; tree 30' h; fl: yellow; sepals: brownish tomentose with black spots

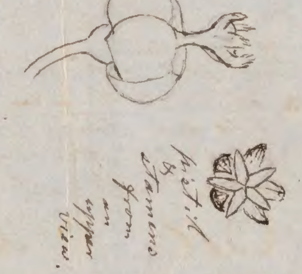
310. Pachira
Febr: & March; margin of woods fronting the sea-shore; tree 70-80' high, could see no leaves on them during my 3 months stay at Chagres. trunk armed with short but stout spines; petals 3" l, narrow, inside white outside brown ~~&~~ somewhat tomentose; stam: as long as the petals.
April 1st a young leaf. (distrib: to set No. 1)

311.
~~Mar~~ Febr:; low swampy margin of the river; tree 30-70' h; pet: 5 imbric: 10"-12" l, narrow inside white; outside greenish yellow; could not ~~reach~~ ~~as~~ get any of the leaves.

312. Pachira
January, 6-15th; low ~~&~~ moist bank of the river; tree 20-50' h; lower part of the trunk conical, bark ~~of~~ lively green; petals 2½-3" long; inner ~~side~~ surface of the pet: ~~pure~~ white, outside greenish brown.

313. ~~January~~; hilly region; shrub 5-8' h; fl: white.

314. ~~Pachira~~ Ardisia
February, 20th; margin of
the sea-shore. 10-20' h;
pet: 5, white, much recurv
erect as in Solanum; ~~te~~



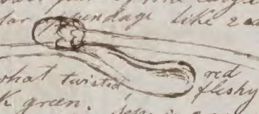
315.
March; foot of hills;

316. Moronobea globulifera
March, 17th; deep shady
ground; tree 50-60' h
lish) ¾ of each pet: imb
one to the right; stam: 5, no, coherent at their bases as far as the anthers. anthers adnate to the out-side of the stamens, 3 to each stam:, in the bud yellow, but afterwards black; pistils: 5, red, alternate

317. Ternstroemia [illegible] HBK
March, 24th; ~~small trees~~ mar
hilly region; small trees 15-
sepals: reddish yellow; pet:
yellow apex.

Gen. nov. Samydeis affine?
318. March, 18th; deep shady wo
a ~~small~~ tree 6" in diam:; 20-
green; corolla: none.

10/2 50. Chagres, low ground tree, sending out aëreal rootlets. infl: raceme, ped: 1½ ~~e~~ l, very stout. fl: having at the lower part of the calyx a singular appendage like 2 ears; they are red and somewhat twisted, fleshy, the beak green. sep: in 2 rows, ~~ad~~ adnate; pet: 5, green recurved



319. March, 5th; margin of woods; shrub ~~sep:~~ pedicels, peduncles & sepals: purple, petals: white tinged slightly with red; anthers erect, accuminate.

320. April, 8th; ~~shrub~~ margin of woods; shrub, fl: white.

321. January; hilly region;

322. February; lower part of ~~bank~~ of a creek bank, ~~margin~~ in moist fertile soil.

323. Febr:; low ~~sw~~ marshy river bank, in the woods. tree, 30-40' h.

324. January; ~~to~~ lower part of a steep creek-bank, near the water.

325. January; local: with the preceding; 2-3' h.

326. Apeiba
Febr: 4th; hilly region, margin of woods; ~~shrub~~ 15-20' h ~~with spreading~~ of crooked growth & with spreading branches; fruit: flattened.

327. February 28th; hilly region; pl: twining; fr: a kind of a pod containing 1 greenish black seed with dimpled surface.

328. Bixa Orellana var. fructu depresso
January; margin of woods fronting the sea-shore, low sandy beach; ~~tr~~ a low shrub, also trees 20-30' h; fr: covered with ~~somewhat~~ limber spines.

329. January; damp shady woods; 15-20' h;

Drepanocarpus?
330
lly region; at ~~limber~~ limber
& resting upon other
ers: not yet expanded,

cotyledonae.

; ~~in~~ damp marshy
~~at~~ trunks of live trees
~~abo~~ from the ground.
fl: pale yellow. ~~I was unable to dry~~ leaves most difficult to dry.

332. Jan:- March; damp marshy woods) on exposed roots & on ~~the bases of~~ & lower part of trees; flower red.

~~on expo~~ damp marshy woods on roots & the ~~bark of ste~~ trunks.

on ~~the dr~~ dead trunks of ~~flower~~ in damp shady woods; fl: yellowish green.

335. March; margin of woods; twining & climbing by petioles; fl: reddish brown.

336. fruit ~~fertile~~ specim: ~~sp:~~ of 335?
March; local: with 335.

337. March; ~~wet~~ marshy places, in shady woods; pl: 2-3' h. fl: white.

338. April, 6th, marshy places in the woods near the river; 4-5' h, flower: white

285. Ficus
March; damp marshy woods; tree 40-50' ~~60~~ h, bearing fr: in great abundance; which is eagerly sought after by ants.

286. Ficus
March, damp shady woods; shrub, 15-20' h.

287. ~~Umbellif~~
Coccoloba uvifera
~~Febr~~ Jan: & Febr: ; low level land at the margin of ~~the~~ woods fronting the sea-shore; tree 30-~~60~~' h, branching ~~fr~~ near the base, ~~of the stem~~; fl: white. leaves: thick & stiff. stem often inclined & depressed.

288.
Febr: ; margin of woods, shrub 5-8' h, fl:-spike 6-8" l; corolla' throath ½" l, narrow, fl: white.

289. Gen. nov. Rondeletiearum?
Febr: & March; ~~low~~ ~~swampy p~~ margin of swamps ~~&~~ near the river; shrub 4-8' h.

290. Aethoxylum
Janu: ; margin of woods near the sea-shore; tree 25-30' h; ~~in~~ flower: white.

291. Ruyschia
Febr: 10th, shady woods in a low swampy region; ~~pl.~~ ~~an~~ a stout arborescent ~~twiner~~ ~~plant~~, (tr.?) somewhat twining or leaning over other trees with ~~the~~ slender branches somewhat pendulous & sending out aëreal rootlets; peduncles 1½" l., ~~st~~ ~~the~~ very stout, fl: having at the lower part of the calyx a singular appendage like 2 ears; they are of a brownish purple color ~~red~~ and somewhat twisted, fleshy, the beak green; sep: in 2 rows, adnate; pet: 5, green, recurved like a crown, stam: alt: 5, reddish color, at right angles to the axis of the flower; anthers somewhat recurved, exuding a brownish greasy liquid.

292. Croton
March, 24th; hilly region, margin of woods; sep: green; petals: minute, white.

293. Poroqueria
March, 21st; ~~low~~ damp shady woods; ~~tree~~ shrub: 12-15' h; lower part of the corolla green, upper part pure white; anthers: brown. — (fr: v: No 1st)

294.
January; in swampy places; fl: white.

295. Blakea sp. n.?
March, ~~in~~ damp shady woods ~~near~~ at the margin of ~~sw~~ wet swampy places; shrub, 10-20' h.

296.
April, 2d in the near ~~swamps~~ marshy places in shady woods. leaves ~~s~~ thick.

297. Begonia humilis Dryand.
~~March 30th~~, April 1st low wet places in shady woods; pl: 6"-14" growth erect; petals: 4-5, white, anthers: yellow.

298.
March; ~~damp shady wood~~s hilly region bank of a rivulet; fl: ~~white~~ greenish white.

299.
Febr: ; margin of shady woods near swamps; shrub 8-12' h.

300
April, 3d; margin of damp shady woods fronting the seashore, shrub 2-~~3~~ 4' h; calyx: green; Corolla: white.

301.
Febr: 20th creeping over fallen trunks ~~stems~~ of trees; in ~~moist~~ low moist places in the woods. Ants have injured the ~~flower or~~ fruit.

302. Peperomia pellucida HBK
Febr: ; low grassy places, ~~on the low~~ near the sea-shore; a low herb semi-transparent; fr: ~~in~~ little globulous bodies in spikes 1-1¼" l.

303.
~~Mar~~ Febr: ; hilly region, bank of a rivulet. ~~fr:~~ shrub 6-8' h; fr: ~~in~~ generally in 4th; leaves stout.

304. Quassia amara L. var grandiflora
~~fr: in 4~~ January; margin of shady woods, ~~fl~~ fronting the sea shore; shrub 8-12' h; fl: scarlet 1-1¼" l., not widely opened (expanded; base of the stamens tomentose; fruit: in 4 inserted ~~around~~ around a ~~thick~~ ~~th~~ fleshy receptacle.

305. Doliocarpus
Febr: ; shady woods; pl: somewhat twining. fl: yellow.

306.
January, 8th; margin of little streams, ~~tree~~ shrub, 10-20' h. pet: fugitive, ~~st~~ fl: white.

307. Cochlospermum serratifolium DC.
Janu & Febr: ; margin of woods; tree 30-40' h; flowers yellow, 2½" in diam. when expanded.

308. Anacardium occidentale L.
January; margin of woods fronting the seashore; small trees ~~little shrub~~ ~~of~~ 15-20' high; petals: 5 ~~narrow~~, greenish-white (with red ~~str~~ lines ~~in~~ along the centre, linear, accuminate, retroflexed; style projecting. green fruit, giving out a greasy substance in being ~~cut~~ split. Receptacle or torus: when full grown 2½" long, 1¾" in diam: at the end bearing the fr: 1" at the opposite end, resembling in shape a ~~some kind of~~ pear; ~~fruit very hard~~ of fine yellow colour, tinged with red at the sunny side, pendant, very mellow & juicy when ripe and sold as an eatable fruit, but to me it had a somewhat astringent taste.

309.
Janua: ; deep shady woods; tree 30' h; fl: yellow; sepals: brownish tomentose with black spots

310. Pachira
Febr: & March; margin of woods fronting the sea-shore; tree 70-80' high, could see no leaves on them during my 3 months stay at Chagres. trunk armed with short but stout spines; petals 3" l, narrow, inside white outside brown & somewhat tomentose; stam: as long as the petals.
April 1st a young leaf. (distrib: to Set No 1)

311.
~~Mar~~ Febr: ; low swampy margin of the river; tree 30-70' h; pet: 5, imbricated 10"-12" l, narrow inside white; outside greenish yellow; could not get ~~reach~~ ~~an~~ any of the leaves.

312. Pachira
January, 6-15th; low ~~&~~ moist bank of the river; tree 20-50' h; lower part of the trunk conical, bark ~~of~~ lively green; petals 2½-3" long; inner ~~side~~ surface of the pet: ~~pure~~ white, outside greenish brown.

313.
January; hilly region; shrub 5-8' h; fl: white.

314. ~~Ardisia~~ Ardisia
February, 20th; margin of woods ~~fr~~ fronting the sea-shore. 10-20' h; sepals: minute red, pet: 5, white, much recurved; anthers: ~~yellow~~ bright yellow conspicuous erect as in Solanum; ~~be~~

315.
March; foot of hills; 15-20' h; fl: white.

316. Moronobea globulifera Schlecht.
March, 17th; deep shady woods on swampy ground; tree 50-60' h; petals: 5, red (purplish) ¾ of each pet: imbricated by the next one to the right; stam: 5, red, coherent at their bases as far as the anthers. anthers adnate to the out-side of the stamens, 3 to each stam:, in the bud yellow, but afterwards black; pistils: 5, red, alternate

317. Ternstroemia [illegible] HBK
March, 24th; ~~small trees~~ margin of woods hilly region; small trees 15-20' h; sepals: reddish yellow; pet: white with yellow apex.

318. Gen. nov. Samydeis affine?
March, 18th; deep shady woods; ~~only~~ a ~~small~~ tree 6" in diam: ; 20-30' h; calyx green; corolla: none.

319.
March, 5th; margin of woods; shrub ~~sep:~~ pedicles, peduncles & sepals: purple; petals: white tinged slightly with red; anthers erect, accuminate.

320.
April, 8th; ~~shrub~~ margin of woods; shrub; fl: white.

321.
January; hilly region;

322.
February; lower part of ~~bank~~ of a creek bank, ~~margin~~ in moist fertile soil.

323.
Febr: ; low ~~swa~~ marshy river bank, in the woods. tree, 30-40' h.

324.
January; ~~be~~ lower part of a steep creek-bank, near the water.

325.
January; local: with the preceding; 2-3' h;

326. Apeiba
Febr: 4th; hilly region, margin of woods; ~~shrub~~ 15-20 h ~~with spreading~~ of crooked growth & with spreading branches; fruit: flattened.

327.
February 28th; hilly region; pl: twining; fr: a kind of a pod containing 1 greenish black seed with dimpled surface.

328. Bixa Orellana var. fructu depresso
January; margin of woods fronting the sea-shore, low sandy beach; ~~tree~~ a low shrub also trees 20-30' h; fr: covered with ~~somewhat~~ limber spines.

329.
January; damp shady woods, 15-20' h;

330. Drepanocarpus?
March, 20th; hilly region; a ~~limber~~ limber shrub leaning & resting upon other shrubs. flowers: not yet expanded, fr: not seen.

Monocotyledoneae.

331.
Febr: & March; ~~on~~ damp marshy places, on ~~dead~~ trunks of live trees sometimes 15' ~~abo~~ from the ground. fl: pale yellow. ~~I was unable to dry~~ leaves most difficult to dry.

332.
Jan: - March; damp marshy woods (on exposed roots & on the ~~bases of~~ lower part of trees; flower red.

333.
March; ~~on expo~~ damp marshy woods on exposed roots & the ~~bark of~~ ~~ste~~ trunks of trees.

334.
March; on ~~the~~ ~~dr~~ dead trunks of a tree, ~~flower~~ in damp shady woods; fl: yellowish green.

335.
March; margin of woods; twining & climbing by petioles; fl: reddish brown.

336. ~~fruit~~ ~~fertr:~~ specim: ~~sp:~~ of 335?
March; local: with 335.

337.
March; ~~wet~~ ~~&~~ marshy places, in shady woods; pl: 2-3' h. fl: white.

338.
April, 6th, marshy places in the woods near the river; 4-5' h; flower: white

Cyperaceae.

339. January, 9th; low sandy beach.

340. January; sandy beach.

341. Jan:; margin of ~~swamps~~ marshes.

342. Febr:; wet ~~low~~ places on the low sandy beach. 6"–12". h.

343. Jan: 9th, wet places on the low sandy beach.

344. Jan 9th —— d° ——

345. Jan: 9th —— d° ——

346. Jan: 20th —— d°, — ——

347. Jan: 15th —— d° ——

348. Febr:; bank of a ~~small~~ rivulet; 6-8"h.

349. Jan: – March; low sandy beach, wet places; 1–2' h;

350. Jan: – March; margin of swamps ~~marshes~~.

351. January, margin of swamps; 1-1½' h.

352. January; low sandy beach.

353. January, 10th; low shady places in the woods; 2½–3½' h.

354. ~~March~~ February; low ~~damp~~ shady woods; ~~tuples~~ pl: 3–4' h.

355. Febr. – ~~March~~ April; margin of swamps. pl: 1–2' h.

356. March; marshy places in low ~~tan~~ shady woods; 3–4' h

357. ~~Febr. &~~ March; low shady woods; 1–1½' h.

358. January, 11th; wet shady places in the woods; 2–3' h;

359. March; wet places, in low shady woods, 3–5' h;

360. March; marshy places in the woods; 4 – 6' h;

361. Febr: – March; hilly region, margin of the woods, in dry places.

362. January; grassy places low sandy beach; creeping.

Gramineae.

363. January 10th, low meadow near the sea-shore.

364. January, 10th; low moist ~~to~~ meadow near the seashore.

365. Panicum Crus Galli:
January 20th; wet places on the beach ~~sea-shore~~ 3 – 5' h;

366. Paspalum
January; low moist meadow.

367. January; moist sandy beach; 6-12' h;

368. January; low moist meadow.

369. Jan: 9th d°. — ——

370. Jan: ~~9th~~ March; low moist meadow.

371. March; hilly region.

372 a. Febr:; ~~swa~~ ~~marsh~~ margin of the marshy bank of the river. 6–10' h.

372 b. d° —— d° ——

373. Febru:, marshy places in the woods close to the exposed roots of trees.

374. Jan: 9th; low shady places in the woods.

375. January, on decayed trunks of trees, in shady woods.

376. March; margin of the woods, low grassy places

377. March, d° —— d° ——

378. Febr:; wet sandy places on the beach, 1–2' h.;

379. March; ~~a low bank~~ margin of the river. 3–4' h.;

380. ~~the~~ January; low moist places in shady woods; 1–6' h.

381. April 6th, low marshy region near the river. 10–18' h.

Lycopodiaceae

382. January – March; in damp shady places on creek-banks; growth adnate to the ground.

383. February; lower part of the creek-banks; growth: erect, 6–14" h;

384. January. damp shady woods; pl: twining. leaves: opposite, but leaflets: alternate; leafl: undivided, except in some rare cases 3 divid.

385. January 10th; damp shady woods. ~~in~~ pl: twining. stem & branches somewhat pubescent.

Filices.

386. (N° 2) Febr:; creek-bank; lower surface of the fronds white powdered.

387. March; damp shady creek-bottom; ~~places in the woods~~ on moist bark of branches, ~~&~~ ~~trunks~~ ~~stems of trees~~.

388. (N° 1) ~~roots not creeping~~ March; lower part of a moist creek-bank; fertile soil; roots not creeping &c: vid: (N° 1.)

389. (N° 3) March; loc: with the preceding one.

390. (N° 4) March; creek-valley.

391. (~~N° 6~~) March; d° ; ~~to~~ fronds 1–2" long

392. (N° 5) February; ~~along~~ on the surface of alive Palm-trees, sometimes 15–20 feet above the ground, also near the base of these trees; ~~fronds~~ in damp shady woods. fronds 3–4' l. entire, acuminate. exceedingly slow in drying.

393. (vid 6.) March; local: with the preceding N°; frond 2–3' h; Specimen dry exceedingly slow

394. (N° 8) March; damp shady creek-~~bottom~~ bank.

395. (N° 7.) March & April; damp shady woods marshy region; a parasite upon the branches of trees; ~~few~~ specimens drying exceedingly slow.

396. (N° 9.) January – March; in marshes; fronds 5–8' h.;

397. (N° 10) March; ~~to~~ margin of a creek, damp shady bank.

398. (N° 11) March; wet ~~damp~~ shady places in the woods; ~~2-3' h.~~ fronds 2–3' h;

399. (N° 12) February ~~hilly region~~, ~~creek~~ shady creek-bank; fronds 2 – 3½' long.

400. (N° 13) February; loc: with ~~the~~ N° 399.

401. (N° 14) February; d°

402. (15) March; low creek-bank, shady woods; frond 2 – 2½' h.

403. (N° 16) January – March; ~~locality with N° 402~~ low wet places in the woods; fronds 3–5' h.

404. March; steep shady creek-bank; fronds 4' ~~+~~ long;

405. March; local: with N° 404; fronds 4–5' long

406. (19) January; damp shady creek-bank. fronds 2' long

407. (20) January ~~Febr:~~; local: with N° 406; fronds 2–2½' l.

408. February; hilly region; deep ravines; frond 3' h;

409. (N° 21) January – March; high bank of a rivulet; frond 1–2' h;

410. (21 ~~2~~) February; damp shady woods; fronds 1–1½' long

411. (N° 22) March; steep shady bank of a creek; fronds: 4–5' long.

412. (23) March; damp shady woods; ~~4~~ fronds 1½–2' long

413. January – March; ~~high bank of a rivulet~~. damp shady places in the woods. 1–2' h.

414. March; high bank of a rivulet. 1½ – 2' h;

415. March, d° – d° ; 8 – 16" h;

416. (25) February; damp shady woods; frond 2½' long.

417. February; low bank of a rivulet in shady woods; 4–5' h. ~~spores easily~~ fructification easily coming off.

418. (26) March, damp shady places in the woods; on the trunks of ~~alive~~ Palm-trees; and on dead stumps. fronds 4 – 7' long; ~~tufted~~ plants ~~very~~ exceedingly difficult to dry.

419. March; damp shady woods; on ~~a~~ stumps & exposed roots of trees.

420. (28) January – March; wet shady places in the woods; 3–4' h; exceedingly difficult to dry.

421. N° 29. January, low bank of a small river pl: 4–7' high.

339. Jan.
340. Jann
341. Jan:
342. Febr: 6th,
343. Jan:
344. Jan
345. Jan
346. Jan
347. Jan:
348. Febr
349. Jan: 1-2'
350. Jan:
351. Janna
352. Janna
353. Janu woods
354. March pl: 3
355. Febr: pl:
356. March wood
357. ~~Febr~~
358. Janna woods,
359. March 3-5'
360. March 4-6
361. Febr: woods,
362. January
363. Janu sea-sho

---

422. January; shady banks of a creek in the woods; ~~pl.~~ fronds 2-2½' long.

423. March; damp shady woods; marshy region; on the smaller branches of trees.

Some Monocotyledons.

424. Cocoa-Nut
February; ~~low or~~ flat marshy region along the sea-shore; trees, 30-90' h.

425. January; wet low ~~level~~ banks of a rivulet; pl. 5-8' h; spathe ~~scape~~ of the fl: greenish white.

426. March; marshy places in damp shady woods; pl: 2-3' h; spathe ~~scape~~ of the fl: white.

427. February, margin of a rivulet in shady woods; pl: 8-10' h; fr: purplish red.

428. Febr: 10th; on stumps also on the sides of low but stout ~~thick~~ palm-trees. fruit-spike near 2' long. petiole about 3' long; leaf: palmately 9 divided; some of the leaflets 2' long.

429. February; on stumps & trees in shady woods.

430. February; on stumps & ~~logs~~ half decayed ~~dead trunks of trees~~ logs, damp shady places

431. ~~Febr. &~~ March; on the sides of short but stout Palm trees; spathe ~~scape~~ of the fl: greenish yellow.

432. February ~~March~~; damp shady woods, marshy region; pl: growing on stumps & palm trees; stalk ~~or~~ spiny.

433. February 12th; damp shady woods marshy region; pl: 10-20' high, of a slender conical growth; densely armed with short but stout spines; stem without branches and without leaves except a tuft or bunch of leaves at the apex. easily splitting

434 January; damp shady woods.

435. January; ~~in~~ in marshes, at the margin of woods.

436. January & February; in the water of marshy places.

437. Febr: ~~in~~ on stumps & palm-trees; leaves very thick & difficult to dry; flower: pure white.

438. March; on a ~~palm~~ tree; flowers: greenish yellow.

439. March; local: the same with 438. fl: purple.

440. March, 4th; in marshy places margin of woods; ~~climb~~ pl: climbing. fl: greenish yellow with purple ~~wit~~ veinlets.

441. March; steep & moist banks of a ~~ri der~~ narrow rivulet; pl: 4-6' h.

442. January & Febr:; marshy places in shady woods. pl: 3-5' h.

443. January; marshy places & low banks of rivulets; pl: 5-8' h; greater part of the scapes purple; fruit ~~when near ripe~~ upper part deep blue, lower part green;

444. March; marshy places in shady woods; pl: 8-10' h;

445. Febr:; low wet places in shady woods. pl: 3-5' h.

446. January; local: with 445. pl: 3-4' h; ~~seat~~ fruit-scales purplish.

447. March; ~~in~~ damp shady woods, marshy region; pl: ~~10~~ 8-14' h. flower: deep (bluish) purple with white veinlets.

448. Febr: 11th; high banks of rivulets, shady woods; strong vines hang ~~far~~ down from the ~~stem~~ branches of high trees and issue at their nodes dense bunches of 2-3' long leaves. ~~2-3~~; the vines ~~reach~~ frequently reach the ground.

449. March; on the stems of Palm trees, ~~pl.~~ stalks. 1-1½' l.

450. March; local: the same with 449; stalk: ~~1~~-1½-2½' l.

451. January; wet sandy beach; plant: creeping.

452. Febr:; damp shady woods, moist ~~wet~~ places; 1-1¼' h;

453. March; hilly region.

454. February 4th; wet shady places in the woods.

455. March, 8th; hilly region; plant climbing. ~~vide the next column~~

~~456.~~ 290b= Leaves belonging to fruits to bulky to be laid in Sets, therefore not distributed.

~~456.~~
456. March, 8th; margin of ~~the~~ woods, fronting the sea-shore. A small tree, 15' high; ~~the~~ stem, especially the lower part of it densely armed with spines; fruit erect, on pedicles (1½-2" long), fr: compressed 1¼" in perpendic: 2½" in horizontal ~~diam:~~ direction; Sep: 4, persistent, fleshy; adhering to the fruit; branches & twigs contain a great quantity of sap somewhat ~~sticky~~ viscid. The plant is called by the Natives "haviya" and the seeds are said to be an excellent purgative.

457. March, 13th, shady woods, low level ground near a rivulet; plant: pending; fruit: somewhat compressed armed with ~~soft~~ feathered limber spines; ~~the stem~~ pl: exudes a milky sap.

458. March, 20th; hilly region, high bank of a rivulett; tree, 60' high, fruit pendant, a pod 10-12" long, twisted, densely beset wit brown bristly hair.

459. Febr: 14th; damp shady woods, low banks ~~near~~ of a rivulet; ~~plant fruit pending~~ twining?; fruit pending on long string like pedicles (15-20' l.) from the branches of trees; fr: armed with deciduous sharp bristles which adhere to the hands. Leaves composed of 3 separate leaflets.

460. February; marshy region; Palm-tree; ~~St~~

~~461.~~ ~~456.~~ 290b= February; margin of woods fronting the sea-shore. shrub 15-20' high.

339. Jan

340. Jann

341. Jan:

342. Febr
6"

343. Jan:

344. Jan

345. Jan

346. Jan

347. Jan:

348. Febr

349. Jan:
1 – 2

350. Jan:

351. Jann

352. Jann

353. Jann
wood

354. ~~Marc~~
pl:

355. Febr: –
pl:

356. Marc
wood

357. ~~Febr~~

358. Janna
woods

359. Marc
3 – 5

360. Marc
4 – 6

361. Febr: –
woods,

362. Jannar

363. Janu
sea-sh